

19990627.qrp v01_n501.qrl.990627

Date: Sun, 27 Jun 1999 19:03:10 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1501

QRP-L Digest 1501

Topics covered in this issue include:

- 1) [43596] Compactron and HP 486-33 Vectra PEECEE set to be given away
by "Bob Duckworth" <wb4mnf@atl.org>
- 2) [43597] SPECIAL EVENT STATION
by dennyr@fuse.net
- 3) [43598] Pixie
by randy cornelison <randyc@tsixroads.com>
- 4) [43599] Direct Conversion, Logic Switched Audio Oscillator Receiver Design
by "Randy Jouett" <rules@bellsouth.net>
- 5) [43600] Wanted 2mt or 6mt CW QRP Transceiver kit or Schematic
by Johnny Belshe <km5im@telepath.com>
- 6) [43601] Looking for parts source
by "Gene Hall" <evhall@ix.netcom.com>
- 7) [43602] Winspice <-> ARRL Radio Designer progr, which to learn?
by Goran Hosinsky <hosinsky@jet.es>
- 8) [43603] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design
by Goran Hosinsky <hosinsky@jet.es>
- 9) [43604] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 10) [43605] Have NorCal Cap Kits Gone Out ?
by Jim Dolson <jdolson@iserv.net>
- 11) [43606] Enter Your QRP Field Day Scores/Soapbox
by "Jim Stafford, W4Q0" <w4qo@amsat.org>
- 12) [43607] Field Day
by mikemo@ibm.net
- 13) [43608] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design
by "Tony Fishpool" <g4wif@btinternet.com>
- 14) [43609] Indiana QRP Club...alive or dead ???
by Fred Bennett N9TA <N9TA@worldnet.att.net>
- 15) [43610] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design
by "Randy Jouett" <rules@bellsouth.net>
- 16) [43611] dial slippage
by af852@rgfn.epcc.edu (William R Colbert)
- 17) [43612] RE: Looking for parts source

by "Alex Mendelsohn" <ai2q@ispchannel.com>
18) [43613] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver
Design
by "Randy Jouett" <rules@bellsouth.net>
19) [43614] Re: Direct Conversion, Logic Switched Audio Oscillator
Receiver Design
by Bill Jones <kd7s@psnw.com>
20) [43615] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver
Design
by "Randy Jouett" <rules@bellsouth.net>
21) [43616] MiniCircuits mixers
by Mike Czuhajewski <wa8mcq@erols.com>
22) [43617] TCN
by Bob Liesenfeld <wb0poq@visi.com>
23) [43618] Field Day Chairman
by David Gauding <david.gauding@bbs.galilei.com>
24) [43619] Field Day Breakfast
by David Gauding <david.gauding@bbs.galilei.com>
25) [43620] Re: Wanted 2mt or 6mt CW QRP Transceiver kit or Schematic
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
26) [43621] CQ FD
by "Steven Weber" <kd1jv@moose.ncia.net>
27) [43622] Re: kit comparisons article?
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
28) [43623] Re: Direct Conversion, Logic Switched Audio Oscillator
ReceiverDesign
by "George T. Baker" <w5yr@swbell.net>
29) [43624] Sierra fieldday chirps reports !!
by "Walter D. Amos" <waltk8cv@mpdr0.detroit.mi.ameritech.net>
30) [43625] Re: Sierra fieldday chirps reports !!
by Roy <marion@montana.com>
31) [43626] Re: dial slippage
by "Walter Dufrain" <walter@inlink.com>
32) [43627] FD / NC-20
by "Mark Hogan" <mhogan@email.msn.com>
33) [43628] Re: Power line grounds
by Ron Stark <ku7y@dri.edu>

Date: Sat, 26 Jun 1999 20:56:21 +0100
From: "Bob Duckworth" <wb4mnf@atl.org>
To: "qrp" <qrp-l@lehigh.edu>
Subject: [43596] Compactron and HP 486-33 Vectra PEECEE set to be given away
Message-ID: <199906270106.VAA00749@hat-trick.atl.org>

Listproc rejected my message with FREE on the subject line :-)
HP 486-33, sans RAM and HDD plus a compactron for shipping

or free if you pick it up
<http://debris.org/canoe.html>
for details
I have a number of these.
-bob

Date: Sat, 26 Jun 1999 21:18:33 -0400
From: denny@fuse.net
To: qrp-1@lehigh.EDU
Subject: [43597] SPECIAL EVENT STATION
Message-ID: <37757BE7.F55D6295@fuse.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I will be operting a special event station from June 29th to July 5th, 1999. This station is commemorating the visit of the Vietnam Veterans Memorial Moving Wall coming to Northern Kentucky. Hours of operation will vary due to the avalability of operators. It will be on the air all day on July 3rd.

The call sign will be K4W. Operation will be in the General portion of 80 thru 10 mtrs SSB. It will be up to the operator if he wants to operate CW or not. When I operate I will be listening for QRP stations becuse I enjoy QRP SSB myself.

QSL with a 9 X 11 SASE envelope to CBA KA4FMD. A balck and white certificate will be issued. If you have any questions e-mail me directly.

This is my first posting to the list, so thanks for your patience.

72/73

Denny KA4FMD

Date: Sat, 26 Jun 1999 22:19:02 -0500
From: randy cornelison <randyc@tsixroads.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43598] Pixie
Message-ID: <37759826.F8F0C29F@tsixroads.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks guys!! Got several responses about the "correct" placement of the parts on the Pixie II board. As soon as I get some kind of light/magnifying glass arrangement I'll probably start the little rascal! Again thanks and look for me on 7.040. Randy K5UF

Date: Sat, 26 Jun 1999 22:48:33 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43599] Direct Conversion, Logic Switched Audio Oscillator Receiver Design
Message-ID: <008a01bec04f\$f82fbca0\$bb66d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

A good friend of mine (Martin "Marty" Beck WB0ESV) and I were throwing around receiver design ideas on the phone today, and I came up with the idea of using the audio output from the Detector as a logic pulse. This pulse would be used to switch an audio oscillator on and off to produce crystal-clear CW.

With this approach, not only would there be "no" background noise, but you'd be able to adjust the audio oscillator to the tone/frequency that you enjoyed listening to without changing the VFO in any way, shape, or form. Also, weak-signal work would be a definite possibility with the proper threshold and selectivity adjustments. QRM could be easily tuned out and become non-existent to boot. Hmmm. Yep! Crying for a DSP, but I'm trying to keep the price for parts down (unless you know of a REAL cheap source :^).

Anywho, I was wondering if anyone else out there has played around or

tried this? Marty is working on the schematic as I type this, and I'm going to write up an article for a ham rag. We'll probably be looking for someone to kit the thing. We're looking at a ten-to-fifteen dollar price tag for the entire package. If anyone wants a schematic, I'll mail em' a scanned photo or draw one up (depending on the quality of the scan, of course :^).

Marty mentioned that some dude named Paine did something similar to this around 35 years ago, so I figured that someone else out there must have played around with it and knows the pit-falls and gopher holes to avoid.

This should be a neat project. Any help, advice, or flames (if this is a stupid idea :^)) would be highly appreciated! Speak up and your info could be added to the 2nd proto-type :^).

145 (72 + 73),

Randy Jouett, AB5NI

Date: Sat, 26 Jun 1999 23:18:31 -0500
From: Johnny Belshe <km5im@telepath.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43600] Wanted 2mt or 6mt CW QRP Transceiver kit or Schematic
Message-ID: <3775A614.FB3EE1D1@telepath.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang

Just wondering if any body knows of any 6mt or 2mt CW QRP Transceiver, Homebrew Kits or schematic.

73
Johnny Belshe
KM5IM

Date: Sun, 27 Jun 1999 00:54:01 -0400
From: "Gene Hall" <evhall@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: <nn7ck@arrl.net>
Subject: [43601] Looking for parts source
Message-ID: <021a01bec059\$13f50680\$a9a9dccf@#evhall>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Does anyone on the list know of a source for small quantities of the
Minicircuits Laboratory surface mount double balanced mixers?

Thanks in advance.

73,

Gene ... NN7CK ... Louisville, KY

Date: Sun, 27 Jun 1999 06:53:57 +0000
From: Goran Hosinsky <hosinsky@jet.es>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [43602] Winspice <-> ARRL Radio Designer progr, which to learn?
Message-ID: <3775CA85.BC68D144@jet.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi everybody,

To learn the SPICE program seems to be a rather massive undertaking,
even
with the Elemer help from the list it will take considerable time.
Before starting,
I would like to look carefully on where I spend my time.

The ARRL program, not cheap, I understand is is a competition to SPICE.
There was a reviw of the ARRL program in RadCom for September 1995
and G3SEK strongly recommended looking at several other alternatives
before
spending the \$\$\$s. He names:

SPICE (says demo version has far fewer functions enabled than ARRL prog)

Analyser III (commercial, linear AC only, like ARRL prog)

APLAC (free, "astonishing range of functions"

ftp.funet.fi/pub/cae/aplac)

MACE by G4PMK (free, simple but effective AC nodal analysis)

Many others available from Shareware dealers and bulletin boards.

Any comments on this question would be highly appreciated.

73 Goran EA8YU

Date: Sun, 27 Jun 1999 07:08:16 +0000

From: Goran Hosinsky <hosinsky@jet.es>

To: rules@bellsouth.net

Subject: [43603] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design

Message-ID: <3775CDE0.8133CE5A@jet.es>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi,

The ear is a lot more discriminating and sensitive than electronics. If you are not

using something like synchronized CW where you know when to listen for a dit or a dah you will lose signals that you would have copied with your ears. I tried something like that years ago, before there were any switched capacitor filters etc.,

and I was not happy with the result.

73, Goran ea8yu

Randy Jouett wrote:

> Gang,

>

> A good friend of mine (Martin "Marty" Beck WB0ESV) and I were throwing
> around receiver design ideas on the phone today, and I came up with the idea
> of using the audio output from the Detector as a logic pulse. This pulse
> would be

> used to switch an audio oscillator on and off to produce crystal-clear CW.

Date: Sun, 27 Jun 1999 07:22:22 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: Randy Jouett <rules@bellsouth.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43604] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design
Message-ID: <Pine.GS0.4.10.9906270708030.11177-100000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The idea of using the audio output as a switching source to key an independent oscillator has indeed been around a considerable time and undergone numerous incarnations, although most units--including the one I published in 73 many years ago with a code speed counter circuit--used speaker or auxiliary audio output as the source for essentially an external adjunct to the receiver.

In the last couple of decades, the most used chip for translating the the audio into digital has been the 567 tone decoder. One interesting variation that I saw--but cannot find at the moment, used a pair of them offset a bit: this overcomes the tendency toward aliasing in the chip, which would not get through two of them. Since the 567 is long in the tooth--and high by today's standards in current use--something more up-to-date seems in order, although the PIC-based code reader in a recent RadCom still used the 567. My own version preceded the 567 with a log amplifier with feedback to stabilize the signal level to the 567 input at an optimum level, giving the unit a very wide range of signal levels that it could handle. The switching between "normal" and "repeated" code was handled by a momentary switch in the digital line (actually an isolated side-line) that had an adjustable time delay before kicking out in the absence of signal--hence, handled the normal delays in CW quite well.

This is all pre-DSP, which might put an entirely new twist into the technique.

Hope this is useful.

-73-

LB, W4RNL

Date: Sun, 27 Jun 1999 08:54:52 -0400
From: Jim Dolson <jdolson@iserv.net>
To: QRP-List <qrp-l@Lehigh.EDU>
Subject: [43605] Have NorCal Cap Kits Gone Out ?
Message-ID: <37761F1B.7FF8F217@iserv.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Could anyone tell me if the NorCal Cap kits have gone out already?
If possible, please respond directly jdolson@iserv.net - my ISP cuts off
the end of the digest if it gets too big and if your reply is at the
end, well, ...

Thanks,

Jim
wb8zbd

Date: Sun, 27 Jun 1999 09:23:05 -0400
From: "Jim Stafford, W4Q0" <w4qo@amsat.org>
To: QRP-L <qrp-l@lehigh.edu>, nogalist <nogaqrp@qth.net>, matparcL
<matparc@qth.net>, qrp@qth.net, cq-contest@contest.com
Subject: [43606] Enter Your QRP Field Day Scores/Soapbox
Message-ID: <377625B8.9F85F005@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

The slate has been wiped clean! Just go to the ARKIE site (click the
http below on most mail readers) and go to the FD Scores and Soapbox
entry page. We all want to see how things went at your site. It rained
all night in Georgia!! But the lights didn't go out!

After you enter your data the system takes you to the results page. Be
sure to use the RELOAD on the results page or you may be looking at an

old copy!

Hope you all had as much fun as we did. How come N4BP has such a big QRP signal??

--

Jim Stafford, W4QO 770-993-9500 VP - QRPARCI #6515

+++The THRILL is back - QRP - what ham radio is all about!

+++<http://www.qrparci.org>

Date: Sun, 27 Jun 1999 09:50:18 -0400

From: mikemo@ibm.net

To: qrp1 <grp-1@lehigh.edu>

Subject: [43607] Field Day

Message-ID: <37762C19.F2B95A6C@ibm.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Well, my field day plans turned out a bit different than I thought. I was hoping that I would have my K2 by now, but alas they were delayed. Since I don't currently have portable QRP capability I decided to stay on the sidelines. Looking at the rules I realized that I could run my TS-430 on batteries and run 1E. So I hooked up the "current hog" to my 26AH battery, set output to 5 watts and went to work. Even though the 430 draws over an amp on receive and about 4 amps on xmit (5 watts) the battery is still holding up.

I was working 40 meters cw and decided to go to bed when 40 closed up (went long). Well, as of 3AM EDT the band was still short enough and the signals from the east coast were still rolling in. I gave up and went to bed (I know, I'm a wimp ;-)

My CW speed is not up to the 25-35WPM that I heard last night, so when I could I would listen to several exchanges until I got all the info, then threw my call in. It certainly will not be a record breaking score ;-). I have to say that every op I ran into last night was courteous, listened hard for my QRP signal, and were glad to give multiple fills to compensate for my lack of CW skill. What a great bunch of people!

After Church I'll be back at it, and I hope to run into some of the QRP'ers.

72 de ku4qo

Mike Maiorana

Date: Sun, 27 Jun 1999 08:05:30 +0100
From: "Tony Fishpool" <g4wif@btinternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [43608] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design
Message-ID: <000201bec0b9\$a08b0260\$cf3dac3e@p75>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Something like this appeared in RADCOM a few years back. It was (if I remember correctly) a combination of audio filter and comparator. When the signal reached a preset level, the comparator switched and it beeped. I built it and it worked, but not really well. Perhaps the lack of AGC made it unreliable. Probably not good for weak signal stuff. Nice idea though and it would be interesting to see what Randy comes up with.

Kind regards
Tony G4WIF/K4WIF

-----Original Message-----
From: Randy Jouett <rules@bellsouth.net>

>Gang,
>
> A good friend of mine (Martin "Marty" Beck WB0ESV) and I were throwing
>around receiver design ideas on the phone today, and I came up with the
idea
>of using the audio output from the Detector as a logic pulse. This pulse
>would be
>used to switch an audio oscillator on and off to produce crystal-clear CW.
<snip>

Date: Sun, 27 Jun 1999 11:03:59 -0500
From: Fred Bennett N9TA <N9TA@worldnet.att.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [43609] Indiana QRP Club...alive or dead ???

Message-ID: <37764B6F.2AB2E618@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang

Does anyone know if the Indiana QRP Club is alive or dead ??
It would be nice to get a group of folks together from this area.

73.....de.....Fred N9TA

Date: Sun, 27 Jun 1999 11:10:29 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <cebik@utkux.utcc.utk.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43610] Re: Direct Conversion, Logic Switched Audio Oscillator ReceiverDesign
Message-ID: <003b01bec0b9\$2c8a81b0\$3f66d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: L. B. Cebik <cebik@utkux.utcc.utk.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: 6/27/1999 6:26 AM
Subject: Re: Direct Conversion, Logic Switched Audio Oscillator ReceiverDesign

>The idea of using the audio output as a switching source to key an
>independent oscillator has indeed been around a considerable time and
>undergone numerous incarnations, although most units--including the one I
>published in 73 many years ago with a code speed counter circuit--used
>speaker or auxiliary audio output as the source for essentially an
>external adjunct to the receiver.

I kinda' figured that it had been around a long time, L.B. :^).

I like the code-speed counter. Cool!

>In the last couple of decades, the most used chip for translating the the
>audio into digital has been the 567 tone decoder. One interesting
>variation that I saw--but cannot find at the moment, used a pair of them
>offset a bit: this overcomes the tendency toward aliasing in the chip,
>which would not get through two of them. Since the 567 is long in the
>tooth--and high by today's standards in current use--something more
>up-to-date seems in order, although the PIC-based code reader in a recent
>RadCom still used the 567. My own version preceded the 567 with a log
>amplifier with feedback to stabilize the signal level to the 567 input at
>an optimum level, giving the unit a very wide range of signal levels that
>it could handle. The switching between "normal" and "repeated" code was
>handled by a momentary switch in the digital line (actually an isolated
>side-line) that had an adjustable time delay before kicking out in the
>absence of signal--hence, handled the normal delays in CW quite well.

These are some very good ideas, LB. I'll make sure that I pass them on
to Marty. Man -- is he going to have one heck of a letter. I'm "still"
trying
to get his butt on here and get rid of all this double-duty typing junk :^).

>This is all pre-DSP, which might put an entirely new twist into the
>technique.
>
>Hope this is useful.

Sure is useful, LB. Thanks a bunch! I'm sure that the addition of a DSP
to the thing would help out tremendously, but I'm trying to keep
the thing el-cheapo :^). The DSP would sure solve a LOT of
problems, though, especially if it was tied to a neural network
that could learn an individual signal and help out with threshold
adjustment and DSP filtering. With this setup, I believe that
you could copy some "very" weak signals. Not only that, but you'd
be able to hear em' at a comfortable, room-filling level.

Another Hmmm. A neural net tied into a DSP would sure make
one heck of a nice top-of-the-line radio. This message is
Copyright (C) 1999 Randall G. Jouett. All rights reserved world wide, and
written down in a notarized and multiple-witness patent journal, of course
:^).

I wouldn't mind seeing one of your Ph.D.-to-be kids do a paper on it,
though,
LB :^).

I just had a curious thought: what would a pile-up sound like with improper adjustment? Can you say "Beeeeeeeeeeeeeeeeeeep!" :^)
Hmmm. Might be useful as a pile-up detector :^). You could tie it to a computer and post a "pile-up" message to a list-serv or web page.
Ok -- I'll shut up :^).

73,

Randy Jouett, AB5NI

Date: Sun, 27 Jun 1999 10:24:53 -0600 (MDT)
From: af852@rgfn.epcc.edu (William R Colbert)
To: qrp-l@lehigh.edu
Subject: [43611] dial slippage
Message-ID: <199906271624.KAA24820@rgfn.epcc.edu>

The little item below was on the Gqrp-l some time ago, not sure if it will solve your problem but possibly:

> Hi all,> You need to visit your local musicshop and buy a small piece of violi
n> reasin and apply this to the string which will give it grip and the> smallest
block will last you a life time.> Regards Pete G4NTN.> ---> Via GQRP-L - The G-
QRP Club mailing

73
Ray

--

Ray Colbert, W5XE
00TC 3618, SOWP 1064M
El Paso, Tx (FAR WEST TEXAS!)
also: w5xe@juno.com

Date: Sun, 27 Jun 1999 12:32:49 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <evhall@ix.netcom.com>, "Low Power Amateur Radio Discussion" <qrp-

l@Lehigh.EDU>

Subject: [43612] RE: Looking for parts source

Message-ID: <000101bec0ba\$b1ddb660\$5c32a7d0@mendelsohn.ispchannel.com>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Check out Dan's Small Parts. Also, MiniCircuits Labs told me it would sell "onesey-twosey" devices to hams. Dunno. never ordered any.

GL es vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> Gene Hall

> Sent: Sunday, June 27, 1999 12:54 AM

> To: Low Power Amateur Radio Discussion

> Subject: Looking for parts source

>

>

>

> Does anyone on the list know of a source for small quantities of the
> Minicircuits Laboratory surface mount double balanced mixers?

>

> Thanks in advance.

>

> 73,

>

> Gene ... NN7CK ... Louisville, KY

>

>

Date: Sun, 27 Jun 1999 11:46:54 -0500

From: "Randy Jouett" <rules@bellsouth.net>

To: <g4wif@btinternet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [43613] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design

Message-ID: <004c01bec0bc\$b5372fb0\$3f66d6d1@spock>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Tony Fishpool <g4wif@btinternet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: 6/27/1999 11:03 AM
Subject: Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design

>Something like this appeared in RADCOM a few years back. It was (if I
>remember correctly) a combination of audio filter and comparitor. When the
>signal reached a preset level, the comparitor switched and it beeped. I
>built it and it worked, but not really well. Perhaps the lack of AGC made
>it unreliable. Probably not good for weak signal stuff. Nice idea though
and
>it would be Interesting to see what Randy comes up with.

I'm sure the lack of AGC hindered the thing, but I'm looking down this
line --
human-adjustable or neural-network-adjustable threshold. IMHO, that puts
a new twist on the situation (to quote LB) :^)

>Kind regards
>Tony G4WIF/K4WIF

Thanks for the input, Tony!

Randy Jouett, AB5NI

Guinness Beer Drinker (European draught only!) and Bollocks at large :^)

Date: Sun, 27 Jun 1999 10:06:22 -0700
From: Bill Jones <kd7s@psnw.com>
To: qrp-1@lehigh.edu
Subject: [43614] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design
Message-ID: <3.0.6.32.19990627100622.007f7d20@mail.psnw.com>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

I wrote an article for Ham Radio magazine a gazillion years ago that described my approach to this idea. The circuit used a simple 567 phase-locked-loop in a CW regeneration scheme. While it worked well for fairly strong signals, it lacked sensitivity for weak or noisy signals. I have long since lost track of the issue it was in but it was written under my previous call, W7KGZ.

At 10:48 PM 6/26/99 -0500, you wrote:

>Gang,

>

> A good friend of mine (Martin "Marty" Beck WB0ESV) and I were throwing
>around receiver design ideas on the phone today, and I came up with the idea
>of using the audio output from the Detector as a logic pulse. This pulse
>would be

>used to switch an audio oscillator on and off to produce crystal-clear CW.

>

>

"...the fruit of the Spirit is love, joy, peace,
patience, kindness, goodness, faithfulness,
gentleness and self-control...."

<>< Galatians 5:22-23 <><

Date: Sun, 27 Jun 1999 12:52:04 -0500

From: "Randy Jouett" <rules@bellsouth.net>

To: <kd7s@psnw.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [43615] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design

Message-ID: <005d01bec0c5\$e51f32f0\$3f66d6d1@spock>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Bill Jones <kd7s@psnw.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: 6/27/1999 12:22 PM

Subject: Re: Direct Conversion, Logic Switched Audio Oscillator Receiver

Design

>I wrote an article for Ham Radio magazine a gazillion years ago that
>described my approach to this idea. The circuit used a simple 567
>phase-locked-loop in a CW regeneration scheme. While it worked well for
>fairly strong signals, it lacked sensitivity for weak or noisy signals. I
>have long since lost track of the issue it was in but it was written under
>my previous call, W7KGZ.

Thanks for the input, Bill. As I said before, I kinda' figured that this
idea
was old hat; however, with the addition of a DSP differential sampling
algorithm and its output being fed to a neural network to help with
additional samplings and threshold adjustments, we're talking about
a "whole" new ball game :^).

Anywho, again, thanks for the info!

Randy Jouett, AB5NI

Date: Sun, 27 Jun 1999 14:09:23 -0400
From: Mike Czuhajewski <wa8mcq@erols.com>
To: QRP forum <qrp-l@lehigh.edu>
Subject: [43616] MiniCircuits mixers
Message-ID: <377668D3.4B71@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

NN7CK asked for a source of these (MCL itself has a \$50 or higher
minimum order) and AI2Q suggested Dans Small Parts (and said that MCL
will sell small quantities to hams, below the minimum order). There are
other places besides Dans that will sell the things, but they all cost
more than buying directly from MCL--hafta make some profit, after all,
or can't stay in business.

I never tried buying directly from MCL in small quantities to see if
they really do that for hams, though I did make a group buy (above the
minimum order) several months ago for myself and a couple of locals who
wanted to stock up on various MCL products. You could always go that
route, though it just about has to be for a localized group of people or

postage will add significantly to your final costs.

The main reason for this post is to mention a lower cost mixer they introduced recently. It's the ADE-1, in the same family as the ADE-2ASK that I mentioned on qrp-l way back when, and also in my Idea Exchange column in the QRP Quarterly a few issues ago. The ADE-2ASK is not an especially cheap mixer, at \$4.25 in quantities of 10-49, but is smaller than normal, on a par with the ASK series. It's a surface mount unit in an inexpensive, open-on-the-bottom plastic package; you don't always need a metal package, and in many applications the cheaper plastic one is perfectly fine. You don't always need the shielding or mechanical protection that the metal provides. My interest in the ADE-2ASK was the small footprint as well as the low height of 3 mm, which will come in handy in some miniature designs I have in mind.

The ADE-2ASK covers 1-1000 MHz, is a level 7 mixer (requiring +7 dBm of local oscillator drive, the same as the SBL-1) and a conversion loss of 5.4 dB. By comparison, the recently added ADE-1 is 4 mm high (still the same tiny footprint), covers 0.5 to 500 MHz, same 7 dBm drive level, and slightly better specs than the ADE-2ASK in conversion loss, port to port isolation and IP3. It only goes up to 500 MHz, but for most of us that's still quite acceptable. The height of 4 mm is a bit much for my microminiaturization tastes, but still quite small. Here's the punchline--the ADE-1 is \$1.99 in 10-49 quantities.

You do have to be a bit careful in soldering the things, since they have tiny little metal tabs for leads, set in a plastic body. I'd use a small tip, and keep the dwell time of the iron as low as possible, to keep the plastic from melting around the lead.

The bottom line--a small, inexpensive device in an open plastic package, with a footprint of 0.280 X 0.310. Depending on your application, this could be an attractive device.

--

73 and Queue Our Pea de WA8MCQ wa8mcq@erols.com

Date: Sun, 27 Jun 1999 12:58:44 -0500
From: Bob Liesenfeld <wb0poq@visi.com>
To: QRP-L reflector <qrp-l@lehigh.edu>
Subject: [43617] TCN
Message-ID: <37766654.1B7B80F9@visi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi gang,

Does the TCN still meet on Sundays on 20M? If so, what is the time (UTC)?

Tnx es 72

Bob WB0POQ

--

Genuine E-mail From the Land of the Everlasting Icicle...

Bob Liesenfeld

wb0poq@visi.com

Date: Sun, 27 Jun 1999 14:21:39 -0500

From: David Gauding <david.gauding@bbs.galilei.com>

To: qrp-l@lehigh.edu

Subject: [43618] Field Day Chairman

Message-ID: <1.5.4.32.19990627192139.009eae44@bbs.galilei.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Gang,

For those of us unable to make Field Day, you should know N0MII did another super job organizing our annual event for the club. As usual, he anticipated absolutely every need. Amazing!

And, he kept everyone's nose down on the operating tables too. <g> I think we'll end up with a pretty decent score this year. But, the main thing is we had a lot a fun and there was plenty of that to go around.

Jeff, thanks for making it happen!

de Dave, NF0R nf0r@slacc.com

Date: Sun, 27 Jun 1999 14:32:28 -0500

From: David Gauding <david.gauding@bbs.galilei.com>

To: qrp-l@lehigh.edu

Subject: [43619] Field Day Breakfast

Message-ID: <1.5.4.32.19990627193228.009e9e38@bbs.galilei.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Gang,

You had to be there to see Joy and Walter Dufrain cooking up breakfast (along with big smiles) for the dawn shift at Field Day. NQ5R and AG5P couldn't operate this year. But, they found a couple of hours somehow to drive all the way in on Sunday, do their now classic hot breakfast, and then go off to work. To say they were appreciated by everyone there is truly an understatement!

And, about 4:30 or 5:00 a.m. George Blase showed up to rally the troops and take over the 40CW effort. He also brought a bag of warm donuts for a tired crew that needed a shot in the arm by that early hour. Needless to say, WOHAW was real popular guy just before the sun came up. <g>

Many thanks OM's/YL!!

de Dave, NF0R nf0r@slacc.com

Date: Sun, 27 Jun 1999 15:47:54 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: Johnny Belshe <km5im@telepath.com>, qrp-1@Lehigh.EDU
Subject: [43620] Re: Wanted 2mt or 6mt CW QRP Transceiver kit or Schematic
Message-ID: <199906271947.PAA01405@sparticus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

The KK7B series of kits I sell will cover 6m or 2m....

73 - Bill - N8ET
Kanga US
kanga@mail.bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Sun, 27 Jun 1999 15:04:32 +0000

From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [43621] CQ FD
Message-ID: <199906271947.PAA26830@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

I also charged up some gel-cells and worked 1E for awhile. Figured to at least get into the spirit of the thing. Did a little 20 phone and CW, but that wasn't very productive. 40M was a happening place, did most of my 21 contacts there.

I can copy a bit faster than I can reliably send with the paddle, so I just set it where I can send good and leave it there. (18wpm) Figure it's better to send the exchange correctly once, rather than try and match the other guys speed and mess it up a few times :-)

But with a simple and repetitive exchange like > R 1E NH<, and >DE KD1JV< I realised I could have programmed that into the keyer and worked the whole contest by pushing two buttons! Then it would have been easy to match the other guys speed :-)

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Sun, 27 Jun 1999 15:47:54 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: Rod Davis <rdavis@abac.com>, qrp-1@Lehigh.EDU
Subject: [43622] Re: kit comparisons article?
Message-ID: <199906271947.PAA01380@sparticus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

June '96 QST had an article
73 - Bill - N8ET
Kanga US
kanga@mail.bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Sun, 27 Jun 1999 15:43:22 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: cebik@utkux.utcc.utk.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43623] Re: Direct Conversion, Logic Switched Audio Oscillator Receiver Design
Message-ID: <37768CEA.2A495A95@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am pretty sure that I recall a device like this that was available from the James Millen Co. either just before or just after WWII. Seems like it was called the Heteromon or something like that. Any of you guys still have some of the immediate pre- and post-war QSTs? Gave all of mine to a new ham years ago.

Millen was the National Company's principal designer and engineer before he left and started his own company. He designed the National HRO and a number of other such products while with them.

72/73, George AMA 98452 R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Date: Sun, 27 Jun 1999 20:44:44 +0000
From: "Walter D. Amos" <waltk8cv@mpdr0.detroit.mi.ameritech.net>
To: Qrp-l Posts <qrp-l@lehigh.edu>
Subject: [43624] Sierra fieldday chirps reports !!
Message-ID: <37767F2C.3D679D5@mailhost.det.ameritech.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Folks

Has anyone else had these! Chirp reports that is! Not as bad as head lice or scabies but still make you cringe! :-)

I have the dl-qrp-pa and assume it is the culprit as it is drawing down the voltage? Rig uses around 1.3 amps now at 5 watts, and it chirps at 5

watts. Stops chirping at 4 watts on 20 meters and around 3 watts on 10 meters. Things look just fine on the monitor scope but get chirp reports if it's output is around 5 watts. I can see the digital display change when it is chirping, the frequency changes. I put a big 16000 uf cap on the plus buss just before the DL-QRP-PA and that seems to help and can now get more output but still not 5 watts clean. There is a SHOTTKY (IN5817) diode in series with the plus buss could that be limiting the power? The leads from the rig to the battery were #14 wire but the 2.1 barrel plug is still in use.

Any hints or ideas other than BE HAPPY and run it as it is :-)

Walt k8cv

Date: Sun, 27 Jun 1999 15:16:47 -0600
From: Roy <marion@montana.com>
To: waltk8cv@mpdr0.detroit.mi.ameritech.net
Cc: qrp-l@Lehigh.EDU
Subject: [43625] Re: Sierra fieldday chirps reports !!
Message-ID: <199906272118.PAA03603@mail.montana.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:44 PM 6/27/99 +0000, you wr.....

>

>Has anyone else had these! Chirp reports that is! Not as bad as head
>lice or scabies but still make you cringe! :-)

>

>I have the dl-qrp-pa and assume it is the culprit as it is drawing down
>the voltage? Rig uses around 1.3 amps now at 5 watts, and it chirps at 5

>Any hints or ideas other than BE HAPPY and run it as it is :-)

>

>Walt k8cv

I never figured out why some went to the complicated\expensive DLPA mod. I have the output xistor and choke to transformer mod in my Sierra. EASY, \$5.25 mod. More power than you can use with no change in output waveforms. Dozens of hams with various skill levels have done it. Each man to his own poison, I suppose. Roy AB7CE, MT

Date: Sun, 27 Jun 1999 16:58:19 -0500

From: "Walter Dufrain" <walter@inlink.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43626] Re: dial slippage
Message-ID: <003e01bec0e8\$2cf741e0\$606ac4ce@nexar>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ray, great idea. I have also used V-belt dressing, black stuff
in a paper tube about the size of a roll of quarters.

72/73 Walter Dufrain, AG5P Wright City, Missouri

<<<snipped>>>

on the Gqrp-1 some time ago>> Hi all,> You need to visit your local
musicshop and buy a small piece of violin reasin and apply this to
the string which will give it grip and the smallest block will last you
a life time.> Regards Pete G4NTN.> ---> Via GQRP-L - The G-
>73
>Ray Colbert, W5XE

Date: Sun, 27 Jun 1999 17:42:48 -0500
From: "Mark Hogan" <mhogan@email.msn.com>
To: "Low Power" <qrp-1@Lehigh.EDU>
Subject: [43627] FD / NC-20
Message-ID: <003101bec0ee\$85ba96a0\$19d8fcd0@compaq>

Well some gell cells and the newly fashioned ladder line dipole, tuner and
the Super Tick. I ran the clubs battery qrp multiplier.

Learned things

- 1) I can send better then I can receive
- 2) Those guys send the exchange real fast!
- 3) The Super Tick is a great addition to the NC-20.

All in all it was a lot of fun, I ran 32 contacts about half of those with
some help. I had lots of good comments on the rig, It handled the contest
very well. We had a 20M voice station about 50' from me and we only had
minimal hash from time to time.

Looking forward to the next ARS sprint.

Mark Hogan / N50BC

Date: Sun, 27 Jun 1999 15:46:58 -0700 (PDT)
From: Ron Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43628] Re: Power line grounds
Message-ID: <Pine.SOL.3.96.990627154055.19352B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Let me mention one thing about power line grounds....

In one apartment we lived in about 10 years ago I measured
the voltage from the three contacts of a wall plug to
the cold water pipe....

The Hot side was the full 117 volts.

The Neutral was something like 90 volts.

And the Ground was at a bit over 70 volts!

I'd advise that you measure before connecting anything to
a power plug!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

End of QRP-L Digest 1501

